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L1	26312	"713"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:50
L2	48	I1 and (((power or energy) near4 (consum\$5 or conserv\$5 or sav\$4 or optimiz\$5 or reduc\$4))same ((rate or speed or chang\$4)with ((instruction\$1 or command\$1 or operation\$1)near3 number)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 09:04
L3	5137	I1 and (((power or energy) near4 (consum\$5 or conserv\$5 or sav\$4 or optimiz\$5 or reduc\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:25
L4	77	I3 and((rate or speed)with ((instruction\$1 or command\$1 or operation\$1)near3 number))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:27
L5	77	I3 and ((rate or speed)with ((instruction\$1 or command\$1 or operation\$1)near3 number))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:27
L6	69	I3 and ((rate or speed)with (number adj3(instruction\$1 or command\$1 or operation\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:28
L7	31	I3 and ((rate or speed)adj6 (number adj3(instruction\$1 or command\$1 or operation\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:47
L8	33	I3 and ((operati\$4 near3 characteristic\$1)same (system near2 characteristic\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:48

L9	1	I3 and (((operati\$4 near3 characteristic\$1)with (buffer or register))same (system near2 characteristic\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:37
L10	2	(((operati\$4 near3 characteristic\$1)with (buffer or register))same (system near2 characteristic\$1)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:49
L11	11911	"712"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:50
L12	3	I11 and (((operati\$4 near3 characteristic\$1)with (buffer or register))same (system near2 characteristic\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:52
L13	0	I11 and (((adjust\$4 or control\$4 or chang\$4)near3(system near2 characteristic\$1))with((operati\$4 near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:54
L14	0	I3 and (((adjust\$4 or control\$4 or chang\$4)near3(system near2 characteristic\$1))with((operati\$4 near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:54
L15	0	I3 and (((adjust\$4 or control\$4 or chang\$4)near3(system adj6 (speed or frequenc\$3 or characteristic\$1)))with((operati\$4 near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:56
L16	0	I3 and (((adjust\$4 or control\$4 or chang\$4)near3((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))with((operati\$4 near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:57

L17	0	I3 and (((adjust\$4 or control\$4 or chang\$4)near3((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))with(((function\$4 or operati\$4) near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:57
L18	0	I11 and (((adjust\$4 or control\$4 or chang\$4)near3((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))with(((function\$4 or operati\$4) near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:58
L19	1	I11 and (((adjust\$4 or control\$4 or chang\$4)with((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))with(((function\$4 or operati\$4) near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 09:00
L20	0	I11 and (((adjust\$4 or control\$4 or chang\$4)adj3((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))with(((function\$4 or operati\$4) near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:59
L21	0	I3 and (((adjust\$4 or control\$4 or chang\$4)adj3((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))with(((function\$4 or operati\$4) near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 08:59
L22	1	I11 and (((adjust\$4 or control\$4 or chang\$4)with((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))same(((function\$4 or operati\$4) near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 09:02

L23	1	I3 and (((adjust\$4 or control\$4 or chang\$4)with((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))same(((function \$4 or operati\$4) near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 09:01
L24	42	(((adjust\$4 or control\$4 or chang\$4)with((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))same(((function \$4 or operati\$4) near3 characteristic\$1)with (buffer or register)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:59
L25	6	(((adjust\$4 or control\$4 or chang\$4)with((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))same(((function \$4 or operati\$4) near3 characteristic\$1)with (buffer or register))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 09:03
L26	12	I24 and (((power or energy) near4 (consum\$5 or conserv\$5 or sav\$4 or optimiz\$5 or reduc\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 09:44
L27	1	"6715089".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 09:33
L28	4	"6513124".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 09:37
L29	13	(rate near2 (chang\$4 or alter\$4 or increas\$4 or decreas\$4))with ((pending or queu\$3 or wait\$4)near2 (instruction\$1 or command\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:01

L30	1	(identif\$4 or determin\$4 or detect\$4 or measur\$5)near3 ((rate near2 (chang\$4 or alter\$4 or increas\$4 or decreas\$4))with ((pending or queu\$3 or wait\$4)near2 (instruction\$1 or command\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 09:42
L31	4	l29 and (((power or energy) near4 (consum\$5 or conserv\$5 or sav\$4 or optimiz\$5 or reduc\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:58
L32	5	(rate near2 (chang\$4 or alter\$4 or increas\$4 or decreas\$4))with (number adj3((pending or queu\$3 or wait\$4)near2 (instruction\$1 or command\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 09:50
L35	2	"6490688".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:03
L36	0	"6490688".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:02
L37	2	"6243820".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:04
L38	4	"6243820".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:08
L39	5	"6049882".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:08

L40	17	l4 and ((instruction or command)near2 (register or buffer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:50
L41	83	"4758945".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:23
L42	209	(buffer near2 fullness).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:50
L43	8	l42 and ((instruction or command)near2 (register or buffer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:51
L44	14	l42 and (((power or energy) near4 (consum\$5 or conserv\$5 or sav\$4 or optimiz\$5 or reduc\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 10:59
L45	1	l42 and ((((adjust\$4 or control\$4 or chang\$4)with((system or clock)near3 (speed or frequenc\$3 or characteristic\$1)))same(((function \$4 or operati\$4) near3 characteristic\$1)with (buffer or register))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 11:01
L49	2	"6519706".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:24
L50	4	"6519706".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:26

L51	1	"6715089".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:36
L52	4	((rate or number\$1)near3 (pending near2 instruction\$1))with (chang\$4 or alter\$4 or increas\$4 or decreas\$4))same (speed or clock or frequenc\$3 or characteristic\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:34
L53	21	"5592679".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/08 13:36



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21 [Teaching networking and operating systems to information systems majors](#)

D. Robert Adams, Carl Erickson

 February 2001 **ACM SIGCSE Bulletin , Proceedings of the thirty-second SIGCSE technical symposium on Computer Science Education**, Volume 33 Issue 1

 Full text available: [pdf\(428.41 KB\)](#)

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Teaching networking and operating systems to information systems majors presents many challenges. Operating systems and networking tend to be taught in one of two ways. Either the material is non-technical, directed more toward the *business* information systems major, or the material is overly technical, equivalent of teaching a traditional computer science course. We have developed a model for teaching networking and operating systems to information systems majors that bridges that gap. T ...

22 [Formal verification of standards for distance vector routing protocols](#)

Karthikeyan Bhargavan, Davor Obradovic, Carl A. Gunter

 July 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 4

 Full text available: [pdf\(350.56 KB\)](#)

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We show how to use an interactive theorem prover, HOL, together with a model checker, SPIN, to prove key properties of distance vector routing protocols. We do three case studies: correctness of the RIP standard, a sharp real-time bound on RIP stability, and preservation of loop-freedom in AODV, a distance vector protocol for wireless networks. We develop verification techniques suited to routing protocols generally. These case studies show significant benefits from automated support in reduced ...

Keywords: AODV, Formal verification, HOL, RIP, SPIN, distance vector routing, interactive theorem proving, model checking, network standards, routing protocols

23 [Actor semantics of PLANNER-73](#)

Irene Greif, Carl Hewitt

 January 1975 **Proceedings of the 2nd ACM SIGACT-SIGPLAN symposium on Principles of programming languages**


 Full text available: [pdf\(941.92 KB\)](#)

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Work on PLANNER-73 and actors has led to the development of a basis for semantics of programming languages. Its value in describing programs with side-effects, parallelism, and synchronization is discussed. Formal definitions are written and explained for sequences, cells, and a simple synchronization primitive. In addition there is discussion of the implications of actor semantics for the controversy over elimination of side-effects.

**24** The EOS laboratory environment for a course in operating systems


Carl Erickson

March 1996 **ACM SIGCSE Bulletin , Proceedings of the twenty-seventh SIGCSE technical symposium on Computer science education**, Volume 28 Issue 1Full text available:  [pdf\(776.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a laboratory environment for teaching operating systems. The EOS (Exploratory Operating Systems) lab was developed with a National Science Foundation ILI grant to be used in conjunction with a traditional operating systems (OS) course. The main goal of the EOS project was to improve the teaching of operating system principles without the necessity of a special purpose laboratory and the addition to the curriculum of a second course in OS. The EOS labs are summarized and a CP ...

**25** Assistive technology computers and persons with disabilities

Carl Brown

May 1992 **Communications of the ACM**, Volume 35 Issue 5Full text available:  [pdf\(3.69 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**Keywords:** assistive technology, disability

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